

AMENDMENTS TO THE CLAIMS

1. (Withdrawn) A device comprising:  
a receiver configured to utilize a random access communications protocol, comprising,  
a channel detector configured to determine an available frequency,  
a filter circuit, and  
a controller configured to set the filter circuit to pass the available frequency.
2. (Withdrawn) The device according to Claim 1, wherein the device utilizes the 802.11 protocol.
3. (Withdrawn) The device according to Claim 1, wherein the filter circuit includes at least one passband filter that includes the available frequency.
4. (Withdrawn) The device according to Claim 3, wherein the passband filter comprises a filter that passes a band of 802.11 regulated frequencies.
5. (Withdrawn) The device according to Claim 1, wherein the filter circuit comprises a filter module detachably coupled to the receiver.
6. (Withdrawn) The device of Claim 1, wherein the controller is configured to select a RF filter having the available frequency from a plurality of RF filters.
7. (Withdrawn) The device of Claim 1, wherein the filter circuit comprises a plurality of RF filters each having a different passband.

8. (Withdrawn) The device of Claim 1, wherein the filter circuit comprises at least two RF filters each passing a different frequency.

9. (Withdrawn) The device of Claim 1, wherein the filter circuit is configurable to provide a plurality of frequency filters each having a range respectively defined by one of a plurality of frequency channels.

10. (Withdrawn) The device of Claim 9, wherein the filter circuit is selectively configurable between the plurality of frequency channels.

11. (Withdrawn) The device according to Claim 1, further comprising a transmitter, wherein the device is configured for simultaneous transmission and reception.

12. (Withdrawn) The device according to Claim 1, wherein the random access protocol is one of CSMA and DCF.

13. (Currently Amended) A radio frequency (RF) wireless network comprising:

at least two RF transceiver circuits configured to utilize a random access communications protocol, each RF transceiver circuit being implemented on a radio card having a slot number and a slot location in the RF wireless network, each radio card being connected to an antenna;

each RF transceiver circuit being selectively connected to one filter of a plurality of filters, each filter being associated with one frequency channel of a plurality of frequency channels; and

a processor configured to determine different frequency channels for the RF transceiver circuits and to assign a frequency channel to each RF transceiver circuit based on at least one of the slot number, the slot location, and a transmission direction of the antenna.

14. (Previously Presented) The wireless network of Claim 13, wherein each RF transceiver circuit comprises a switching circuit for selectively connecting the RF transceiver circuit to a filter associated with a desired frequency channel.

15. (Cancelled)

16. (Cancelled)

17. (Previously Presented) The wireless network of Claim 13, wherein the random access communications protocol is one of CSMA and DCF.

18. (Original) The wireless network of Claim 13, wherein the plurality of frequency channels are grouped into a plurality of adjacent frequency channels.

19. (Cancelled)

20. (Currently Amended) A method for selecting a radio frequency (RF) signal reception frequency range, the method comprising:

determining available RF frequency ranges from a plurality of RF frequency ranges;

selectively connecting a first receiver to a first filter to receive random access communications over a first available

RF frequency range; and

selectively connecting a second receiver to a second filter to receive random access communications over a second available RF frequency range,

the first and second filters being chosen from a plurality of filters, each filter of the plurality of filters providing a predetermined RF frequency range, each filter being implemented on a radio card having a slot number and a slot location in an RF wireless network, each radio card being connected to an antenna connectable to the filter, wherein choosing the first and second filters is based on at least one of its slot number and its slot location.

21. (Original) The method of Claim 20, wherein determining comprises detecting which of the plurality of RF frequency ranges are occupied.

22. (Original) The method of Claim 21, wherein detecting comprises determining if a RF signal is being transmitted or received within at least some of the plurality of RF frequency ranges.

23. (Cancelled)

24. (Previously Presented) The method of Claim 20, further comprising:

dynamically choosing each of the first and second a filters from a the plurality of filters, wherein each of the plurality of filters allows a predetermined frequency passband.

25. (Cancelled)

26. (Previously Presented) The method of Claim 20, wherein each filter allows a predetermined frequency passband.

27. (Cancelled)

28. (Original) The method according to Claim 20, wherein the random access communications comprise at least one of CSMA and DCF.

29. (Previously Presented) The method according to Claim 20, further comprising:

configuring at least one of the first and second receivers to receive Orthogonal Frequency Division Multiplexing (OFDM) signals.

30. (Withdrawn) A method of operation of a communication device, comprising the steps of:

determining at least one available frequency sub-band;  
configuring the communication device to use one of the available frequency sub-bands; and

configuring an add-on filter to have a passband approximately equal to the one of the available frequency sub-bands.

31. (Withdrawn) The method of Claim 30, wherein:

the communication device comprises a radio card in an RF system having a number of radio cards not greater than a number of frequency sub-bands that may be available.

32. (Withdrawn) The method of Claim 30, wherein:

the add-on filter comprises,  
a plurality of filters each passing at least one of the

frequency sub-bands,

a switch configured couple a selected one of the plurality of filters to an RF path of the communication device.

33. (Withdrawn) The method of Claim 32, wherein the available frequency sub-bands includes at least one wireless network frequency.

34. (Withdrawn) The method according to Claim 30, wherein the communication device is configured to utilize a random access protocol.

35. (Withdrawn) The method according to Claim 34, wherein the random access protocol comprises one of CSMA and DCF.

36. (Withdrawn) An add-on filter, comprising:  
an RF input and an RF output; and  
an RF filter mechanism coupled to each of the RF input and RF output and selectably configurable to any one of at least two passbands.

37. (Withdrawn) The add-on filter according to Claim 36, wherein said RF input is a radio card connector.

38. (Withdrawn) The add-on filter according to Claim 36, wherein the RF output is an antenna connector.

39. (Withdrawn) The add-on filter according to Claim 36, wherein the RF output is coupled to an antenna.

40. (Withdrawn) The add-on filter according to Claim 36, wherein:

the RF filter mechanism comprises,  
a plurality of filters each passing at least one of the at least two passbands,  
an input switch configured to couple an RF path of the RF input to a selected one of the filters, and  
an output switch configured to couple an RF path of the RF output to the selected filter.

41. (Withdrawn) The add-on filter according to Claim 36, wherein the filter is for attaching to a radio using a random access communications protocol.

42. (Withdrawn) The add-on filter according to Claim 41, wherein the random access communications protocol comprises one of CSMA and DCF.